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Topic Organic Chemistry II. A continuation of Chem 211 and completing a full-year course in organic chemistry, primarily for students interested in the chemistry major or in chemical research.

Prerequisites Chem 211 or completion of a comparable one-semester course in organic chemistry.

Co-enrollment in Chem 232 (introductory organic laboratory module, previously Chem 352) is expected. See the instructor if you do not plan to enroll in Chem 232.

Course Meetings Tu/Th, 10:50–11:40 in SS 337. An additional weekly problem session will be scheduled during the first week of class. Topical readings from the textbook will be assigned in advance of course meetings, and it is expected that students will come to class having read assigned readings.

OWL-Space Selected course materials will be available online (owlspace.rice.edu).

Course materials This course will continue with the book used in Chem 211: *Organic Chemistry*, 5th Ed. by Marc Loudon (ISBN 9780981519432).

Access to a good modeling kit can be extremely helpful to your understanding of organic chemistry; they remain useful in an era of ubiquitous computational modeling. The model kits used in Chem 211 will be sufficient. If you plan to study synthetic chemistry in the future, you should also consider a more useful model kit, such as the HGS "5000 Biochemistry Set," available directly from HGS at http://www.maruzenusa.com/hgs/ (listed as "HGS Bestseller" on the website).

Requirements and Grades

problem sets (9)	100 pts
exams (3)	150 pts
final exam	150 pts
participation, reading quizzes	50 pts
TOTAL	450 pts

Exams and Quizzes There will be three midterm exams. The final exam will be scheduled by the registrar. Brief reading quizzes will be administered at the start of some lecture periods. All exams will be closed book and closed notes. A model kit is the only aid permitted on the exam.

Exam regrades You have one week from the time that an exam is handed back to request a regrade for an incorrectly graded exam. If you feel there has been an error in grading you should explain your request on a separate piece of paper and staple this to your original and unaltered exam and submit them to the course instructor.

Only exams written in non-erasable ink may be submitted for regrade. Exams with any markings, erasures, or other alterations of any kind added after initial grading may not be submitted for a regrade.

Problem Sets Problem sets will not be rigorously graded for accuracy; credit is primarily based on completion and evidence of thorough effort. Keeping in mind that problem sets are an aid to your understanding of the material, you are welcome to work with classmates. I am aware that solutions to most problems are available through web resources; you will learn the most by avoiding this temptation and by working through problems yourself.

Honor Code The Rice University Honor Code applies to all work conducted in this class. Take-home exams are assumed to be the sole work of the student. Students may work collaboratively on homework assignments.

Disabilities If you have a documented disability that will impact your work in this class, please contact the course instructor to discuss your needs. Additionally, you will need to register with the Disability Support Services Office in the Allen Center.

Chem 320 **Spring 2014**

Tentative Schedule

			Lecture Topic		**week**
Tue	Jan 14	lecture 1	Ch 14: alkynes		1
Thu	Jan 16	lecture 2	Ch 15: resonance&aromat	**PS1 out**	
Tue	Jan 21	lecture 3		**PS1 in; PS2 out**	2
Thu	Jan 23	lecture 4	Ch 16: EAS		
Tue	Jan 28	lecture 5		**PS2 in, PS3 out**	3
Thu	Jan 30	lecture 6	Ch 17: allylic, benzylic rxns		
Tue	Feb 4	lecture 7		**PS3 in, Practice Exam out**	4
Thu	Feb 6	Lecture 8	Ch 19: C=O addn		
Tue	Feb 11	Exam 1, in-class		**PS4 out**	5
Thu	Feb 13	lecture 9			
Tue	Feb 18	lecture 10	Ch 20–21: acids	**PS4 in, PS5 out**	6
Thu	Feb 20	lecture 11			
Tue	Feb 25	lecture 12	Ch 22: enolates	**PS5 in**	7
Thu	Feb 27	lecture 13		**PS6 out**	
	Mar 3–7	Spring Break		----------	
Tue	Mar 11	lecture 14	Ch 22: enolates		8
Thu	Mar 13	lecture 15		**PS6 in, Practice Exam out**	
Tue	Mar 18	lecture 16			9
Thu	Mar 20	lecture 17		**Exam 2 out**	
Fri	Mar 21	Exam 2 (take-home) due			
Tue	Mar 25	Lecture 18	Ch 23: amines	**PS 7 out**	10
Thu	Mar 27	lecture 19			
Tue	Apr 1	lecture 20		**PS7 in, PS8 out**	11
Thu	Apr 3	Midterm recess			
Tue	Apr 8	Lecture 21	Ch 27: pericyclic rxns	**PS8 in, PS9 out**	12
Thu	Apr 10	lecture 22			
Tue	Apr 15	lecture 23		**PS9 in, Practice Exam out**	13
Thu	Apr 17	Exam 3, in-class			
Tue	Apr 22	lecture 24	Ch 26: amino acids & peptides		14
Thu	Apr 24	Lecture 25		**Final Practice Out**	
	Apr 30–May 7	Final Exams			